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### 1 [The state of the art in locally distributed Web-server systems](#)



Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu

 June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2

Publisher: ACM Press

Full text available: pdf(1.41 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The overall increase in traffic on the World Wide Web is augmenting user-perceived response times from popular Web sites, especially in conjunction with special events. System platforms that do not replicate information content cannot provide the needed scalability to handle large traffic volumes and to match rapid and dramatic changes in the number of clients. The need to improve the performance of Web-based services has produced a variety of novel content delivery architectures. This article w ...

**Keywords:** Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, distributed systems, load balancing, routing mechanisms

### 2 [Network behavior: The effectiveness of request redirection on CDN robustness](#)



Limin Wang, Vivek Pai, Larry Peterson

 December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Publisher: ACM Press

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It is becoming increasingly common to construct network services using redundant resources geographically distributed across the Internet. Content Distribution Networks are a prime example. Such systems distribute client requests to an appropriate server based on a variety of factors---e.g., server load, network proximity, cache locality--in an effort to reduce response time and increase the system capacity under load. This paper explores the design space of strategies employed to redirect reque ...

### 3 [Application level performance: On the use and performance of content distribution networks](#)



Balachander Krishnamurthy, Craig Wills, Yin Zhang

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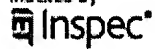
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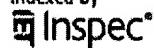
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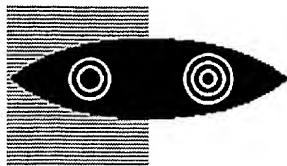
**load balancing and client and server** in the title

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- 1 Method providing server affinity and client stickiness in a server load balancing device without TCP termination and without keeping flow states**  
Inventor: SRIVASTAVA SUNIL K (US)      Applicant:  
EC:      IPC: **G06F9/46; G06F9/46**  
Publication info: **US2006130064** - 2006-06-15
- 2 Dynamic load balancing of a network of client and server computer**  
Inventor: WOLFF JAMES J (US)      Applicant:  
EC:      IPC: **G06F15/16; G06F15/173; G06F15/16 (+2)**  
Publication info: **US2003126200** - 2003-07-03
- 3 Method for rerouting IP transmissions**  
Inventor: IKONEN TEEMU (FI)      Applicant:  
EC: **H04L29/06; H04L29/06J; (+1)**      IPC: **H04L29/06; H04L29/12; H04L29/06 (+2)**  
Publication info: **US2003074453** - 2003-04-17
- 4 Client-side load-balancing in client server network**  
Inventor: BALLARD CLINTON L (US)      Applicant: ACCELERATION SOFTWARE INTERNAT (US)  
EC: **H04L29/08N9A**      IPC: **H04L29/06; H04L29/06; (IPC1-7): G06F15/16**  
Publication info: **US6078960** - 2000-06-20
- 5 Client-side resource-based load-balancing with delayed-resource-binding using TCP state migration to WWW server farm**  
Inventor: BRENDEN JUERGEN (US)      Applicant: RESONATE INC (US)  
EC: **H04L29/08N9A; H04L29/06; (+3)**      IPC: **H04L29/06; H04L29/12; H04L29/14 (+7)**  
Publication info: **US6182139** - 2001-01-30
- 6 Dynamic load balancing of a network of client and server computers**  
Inventor: WOLFF JAMES J (US)      Applicant: HEWLETT PACKARD CO (US)  
EC: **G06F17/30B**      IPC: **G06F15/16; G06F17/30; G06F15/16 (+2)**  
Publication info: **US6185601** - 2001-02-06
- 7 Load balancing of client connections across a network using server based algorithms**  
Inventor: BOLTON DEREK W (AU); AGRAWAL RAJESH (AU)      Applicant: CISCO TECH IND (US)  
EC: **H04L29/08N9A; H04L29/06; (+1)**      IPC: **H04L29/06; H04L29/12; H04L29/06 (+2)**  
Publication info: **US6178160** - 2001-01-23

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1. 12-2004 lb-l: Re: **[load balancing]** Redirect Filter based on URL

alternative If you allow **direct access** to the real ... The **Load Balancing** Mailing

List ... PeterJ: "**[load balancing]** Redirect Filter based on URL" ...

<http://vegan.net/lb/archive/12-2004/0078.html>

2. CTX110261 - URL Redirection Using Content Switching

In order to get the NetScaler to **redirect** a URL to another URL it requires the

use of ... One **load balancing** virtual server is a "real" virtual server, ...

<http://support.citrix.com/article/CTX110261>

3. ONJava.com -- Clustering and Load Balancing in Tomcat 5, Part 1

Two simple custom **load balancing** rules (extending the rules API) were written

based on round-robin and random algorithms to **redirect** incoming web requests. ...

<http://www.onjava.com/pub/a/onjava/2004/03/31/clustering.html>

4. Sun ONE Web Proxy Server 3.6 SP2 Administrator's Guide - NT ...

Proxying for **Load Balancing**. You can use multiple proxy servers within an ...

The proxy intercepts the **redirect** and then changes the redirected URL to map ...

<http://docs.sun.com/source/817-0534-10/revpxy.html>

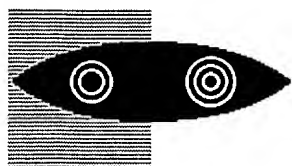
5. iPlanet Web proxy Server 3.6 Administrator's Guide - NT Version ...

Proxying for **Load Balancing** You can use multiple proxy servers within an organization

to **balance** ... the proxy can **redirect** the URL using a reverse mapping. ...

<http://docs.sun.com/source/816-6142-10/revpxy.htm>

6. 2. Web Caching-The Internet Protocol




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### 1. Papers -- Security Best Practice -- TechnicalInfo.net

Organisations should only use **URL's** to **direct** customers to key application...

**Access** to these hosts can be governed through appropriate **load balancing** ...

<http://www.technicalinfo.net/papers/HostNamingAndURLs.html>

### 2. [mod\_backhand-users] Kernel 2.4.2, iptables, fake, redirection and ...

Having being spoiled by HA and **load balancing**, I am trying to find a solution to

... I don't know if mod\_backhand can have **direct access** to the IP stack, ...

<http://lists.backhand.org/pipermail/backhand-users/2001-March/000191.h...>

### 3. 2. Web Caching-The Internet Protocol Journal - Cisco Systems

As with **direct access** models, this approach also has drawbacks. ... Although this

scenario may allow some form of server **load balancing**, particularly when ...

[http://www.cisco.com/web/about/ac123/ac147/ac174/ac199/about\\_cisco\\_ipj...](http://www.cisco.com/web/about/ac123/ac147/ac174/ac199/about_cisco_ipj...)

### 4. Technical Support Newsletter

Links that provide **direct access** to product support resources. ... Gateway **Load**

**Balancing** Protocol -- Uses network bandwidth more effectively by ...

[http://www.cisco.com/public/news\\_training/itsnews/200417.html](http://www.cisco.com/public/news_training/itsnews/200417.html)

### 5. Security Best Practice: Host Naming & URL Conventions

**Avoid** Host Numbering. Organisations should use an appropriate mix of address

translation and **load-balancing**. technologies to **prevent** sequentially numbered ...

<http://www.ngssoftware.com/papers/NISR-BestPracticesInHostURLNaming.pdf...>

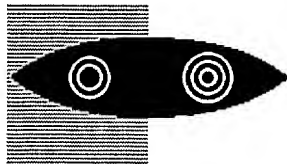
### 6. Web Threats Glossary

**Load Balancing** A group of two or more servers linked together to **balance** variable

... usually over the Internet or by **direct dial access**, the remote **access** ...

<http://www.finjan.com/Content.aspx%3Fid%3D499>






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1. **pound**

However, it lacks the **load balancing** and HTTP filtering features that I ...

This works fine, unless you **redirect** IE to another **server** - given that all 4 ...

<http://www.apsis.ch/pound/>

2. **Why DNS Based Global Server Load Balancing (GSLB) Doesn't Work**

Therefore to use global **server load balancing** (or multi-site traffic ... If the

HTTP **redirect** was to [www.trapster.net](http://www.trapster.net), the **client** would just use the IP ...

<http://www.tenereillo.com/GSLBPageOfShame.htm>

3. **[Paper] Request Distribution in Distributed Web-Server Systems**

KEY WORDS Request **distribution**, Request dispatching, **Load balancing**, ...

may **redirect** the arriving requests to another Web-**server** so that **load** across the ...

<http://www.actapress.com/PDFViewer.aspx%3FpaperId%3D27517>

4. **ONJava.com -- Clustering and Load Balancing in Tomcat 5, Part 1**

The advantages of hardware **load balancing** are **server** affinity and high ...

There are many different algorithms to define the **load distribution** policy, ...

<http://www.onjava.com/pub/a/onjava/2004/03/31/clustering.html>

5. **WebSphere Application Server Network Deployment for Device Manager**

**Load balancing** is implemented with WebSphere Edge **Server Load Balancer** and handles

the HTTP traffic. The **server URL** for a device agent points to the **load** ...

<http://publib.boulder.ibm.com/infocenter/wedmlInfo/v6r0/topic/com.ibm.w...>

6. **Perlbai**

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Date: 9/17/2006

Time: 19:01:15



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## Inventor Name Search Result

Your Search was:

Last Name = DUTTA

First Name = RABINDRANATH

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>09276388</u>	6816270	150	03/25/1999	METHOD AND APPARATUS FOR SUPPORTING APPLICATION AND DEVICE INDEPENDENT PRINT SUPPORT	DUTTA, RABINDRANATH
<u>09306189</u>	6986101	150	05/06/1999	METHOD AND APPARATUS FOR CONVERTING PROGRAMS AND SOURCE CODE FILES WRITTEN IN A PROGRAMMING LANGUAGE TO EQUIVALENT MARKUP LANGUAGE FILES	DUTTA, RABINDRANATH
<u>09306198</u>	Not Issued	168	05/06/1999	METHOD AND APPARATUS FOR CONVERTING APPLICATION PROGRAMMING INTERFACES INTO EQUIVALENT MARKUP LANGUAGE ELEMENTS	DUTTA, RABINDRANATH
<u>09359609</u>	Not Issued	168	07/22/1999	METHOD AND APPARATUS IN A DATA PROCESSING SYSTEM FOR ELIMINATING BAD LINKS IN A DOCUMENT	DUTTA, RABINDRANATH
<u>09377639</u>	6615212	150	08/19/1999	PROCESSING DATA IN A DISTRIBUTED DATABASES FOR TRANSCODING SERVER TRANSCODES THE CONTENT FROM FIRST FORMAT TYPE INTO SECOND FORMAT TYPE AND SEND CONTENT IN SECOND FORMAT TO CLIENT	DUTTA, RABINDRANATH

<u>09383742</u>	<u>6993476</u>	150	08/26/1999	SYSTEM AND METHOD FOR INCORPORATING SEMANTIC CHARACTERISTICS INTO THE FORMAT-DRIVEN SYNTACTIC DOCUMENT TRANSCODING FRAMEWORK	DUTTA, RABINDRANATH
<u>09417826</u>	Not Issued	168	10/14/1999	SYSTEM, METHOD, AND PROGRAM FOR ENABLING AN E-COMMERCE DATABASE SERVER TO PROVIDE JURISDICTIONAL INFORMATION TO FACILITATE E-COMMERCE SALES BY A WEB SERVER	DUTTA, RABINDRANATH
<u>09417827</u>	Not Issued	168	10/14/1999	SYSTEM, METHOD, AND PROGRAM FOR DETERMINING THE JURISDICTION OF A PRODUCT DELIVERY LOCATION BY USING THE IP ADDRESS OF THE CLIENT WHILE SELLING ITEMS VIA ELECTRONIC COMMERCE OVER THE INTERNET	DUTTA, RABINDRANATH
<u>09418376</u>	Not Issued	168	10/14/1999	SYSTEM, METHOD, AND PROGRAM FOR DETERMINING THE JURISDICTION OF A PRODUCT DELIVERY LOCATION WHILE SELLING ITEMS VIA ELECTRONIC COMMERCE OVER THE INTERNET	DUTTA, RABINDRANATH
<u>09428397</u>	<u>6611876</u>	150	10/28/1999	METHOD FOR ESTABLISHING OPTIMAL INTERMEDIATE CACHING POINTS BY GROUPING PROGRAM ELEMENTS IN A SOFTWARE SYSTEM	DUTTA, RABINDRANATH
<u>09428409</u>	<u>6748450</u>	150	10/28/1999	DELAYED DELIVERY OF WEB PAGES VIA E-MAIL OR PUSH TECHNIQUES FROM AN OVERLOADED OR PARTIALLY FUNCTIONAL WEB SERVER	DUTTA, RABINDRANATH

<u>09428435</u>	Not Issued	168	10/28/1999	METHOD OF AND SYSTEM FOR BARGAINING IN E- COMMERCE BASED BUYING AND SELLING SYSTEMS	DUTTA, RABINDRANATH
<u>09434855</u>	<u>6772208</u>	150	11/04/1999	METHOD AND APPARATUS TO RESTRICT FREE HYPERLINKING BY INTERNET CONTENT DISTRIBUTORS TO WEB SITES OF ORIGINAL CONTENT PRODUCERS	DUTTA, RABINDRANATH
<u>09439053</u>	<u>6539424</u>	150	11/12/1999	RESTRICTING DEEP HYPERLINKING ON THE WORLD WIDE WEB	DUTTA, RABINDRANATH
<u>09453253</u>	Not Issued	168	12/02/1999	FULLY REFUNDABLE E- COMMERCE BASED SYSTEM, METHOD AND PROGRAM	DUTTA, RABINDRANATH
<u>09458642</u>	<u>7054952</u>	150	12/09/1999	ELECTRONIC DOCUMENT DELIVERY SYSTEM EMPLOYING DISTRIBUTED DOCUMENT OBJECT MODEL (DOM) BASED TRANSCODING AND PROVIDING INTERACTIVE JAVASCRIPT SUPPORT	DUTTA, RABINDRANATH
<u>09458646</u>	<u>6829746</u>	150	12/09/1999	ELECTRONIC DOCUMENT DELIVERY SYSTEM EMPLOYING DISTRIBUTED DOCUMENT OBJECT MODEL (DOM) BASED TRANSCODING	DUTTA, RABINDRANATH
<u>09458647</u>	<u>6738951</u>	150	12/09/1999	TRANSCODING SYSTEM FOR DELIVERING ELECTRONIC DOCUMENTS TO A DEVICE HAVING A BRAILLE DISPLAY	DUTTA, RABINDRANATH
<u>09458648</u>	<u>6725424</u>	150	12/09/1999	ELECTRONIC DOCUMENT DELIVERY SYSTEM EMPLOYING DISTRIBUTED DOCUMENT OBJECT MODEL (DOM) BASED TRANSCODING AND PROVIDING ASSISTIVE TECHNOLOGY SUPPORT	DUTTA, RABINDRANATH

<u>09464849</u>	<u>6658402</u>	150	12/16/1999	WEBCIENT CONTROLLED SYSTEM, METHOD, AND PROGRAM TO GET A PROXIMATE PAGE WHEN A BOOKMARKED PAGE DISAPPEARS	DUTTA, RABINDRANATH
<u>09464850</u>	<u>6480837</u>	150	12/16/1999	METHOD, SYSTEM, AND PROGRAM FOR ORDERING SEARCH RESULTS USING A POPULARITY WEIGHTING	DUTTA, RABINDRANATH
<u>09464851</u>	Not Issued	168	12/16/1999	METHOD, SYSTEM, AND PROGRAM FOR MONITORING USAGE OF A COMPUTER USEABLE PRODUCT	DUTTA, RABINDRANATH
<u>09466953</u>	<u>6847948</u>	150	12/20/1999	METHOD AND APPARATUS FOR SECURE DISTRIBUTION OF SOFTWARE/DATA	DUTTA, RABINDRANATH
<u>09467789</u>	Not Issued	168	12/20/1999	METHOD AND APPARATUS TO DETERMINE "ORIGINAL" COPYRIGHT INFRINGER OF WEB DOCUMENTS VIA CONTENT TRANSCODING	DUTTA, RABINDRANATH
<u>09488995</u>	Not Issued	168	01/20/2000	Utilizing a transferable guaranteed promise to sell in an e-commerce system, method, and program	DUTTA, RABINDRANATH
<u>09501951</u>	Not Issued	161	02/10/2000	Utilizing customer controlled notification means to a publisher carrying an advertisement when the customer uses a coupon in association with the advertisement in an E-commerce transaction	DUTTA, RABINDRANATH
<u>09504400</u>	Not Issued	119	02/15/2000	Reducing check fraud in internet transactions in a system, method and program	DUTTA, RABINDRANATH
<u>09504828</u>	Not Issued	168	02/16/2000	Instant messaging during internet purchase in a system, method and program	DUTTA, RABINDRANATH
<u>09506225</u>	<u>7089582</u>	150	02/17/2000	METHOD AND APPARATUS FOR IDENTIFYING UNIVERSAL RESOURCE LOCATOR REWRITING IN A	DUTTA, RABINDRANATH

				DISTRIBUTED DATA PROCESSING SYSTEM	
<u>09506236</u>	<u>6700589</u>	150	02/17/2000	METHOD, SYSTEM, AND PROGRAM FOR MAGNIFYING CONTENT DOWNLOADED FROM A SERVER OVER A NETWORK	DUTTA, RABINDRANATH
<u>09513818</u>	<u>6868393</u>	150	02/24/2000	A CLIENT-CENTRIC INTERNET SHOPPING SYSTEM, METHOD AND PROGRAM	DUTTA, RABINDRANATH
<u>09522199</u>	Not Issued	168	03/09/2000	System, method and program for ordered anticipatory caching of linked files in a client/server network	DUTTA, RABINDRANATH
<u>09522201</u>	Not Issued	71	03/09/2000	Method, system, and program for displaying pages downloaded from over a network in an application window	DUTTA, RABINDRANATH
<u>09531930</u>	Not Issued	161	03/21/2000	One click buying in ecommerce systems from non-ecommerce advertisement	DUTTA, RABINDRANATH
<u>09534592</u>	Not Issued	71	03/27/2000	METHOD SYSTEM AND COMPUTER PROGRAM PRODUCT TO REDIRECT REQUESTS FROM CONTENT SERVERS TO LOAD DISTRIBUTION SERVERS AND TO CORRECT BOOKMARKS	DUTTA, RABINDRANATH
<u>09534595</u>	Not Issued	41	03/27/2000	Maintaining confidentiality of personal information during e-commerce transactions	DUTTA, RABINDRANATH
<u>09534605</u>	Not Issued	168	03/27/2000	System, method, and program for enabling communication between a client and a device with a server-hosted device driver	DUTTA, RABINDRANATH
<u>09535559</u>	Not Issued	120	03/27/2000	Third party contract depository for E-Commerce transactions	DUTTA, RABINDRANATH
<u>09535581</u>	Not Issued	41	03/27/2000	Detecting copyright violation via streamed extraction and signature analysis in a method, system and program	DUTTA, RABINDRANATH

<u>09538360</u>	Not Issued	161	03/29/2000	Automatically adjusting web browser display parameters	DUTTA, RABINDRANATH
<u>09542059</u>	6718369	150	04/03/2000	METHOD, SYSTEM AND PROGRAM FOR EFFICIENTLY DISTRIBUTING SERIAL ELECTRONIC PUBLICATIONS	DUTTA, RABINDRANATH
<u>09542506</u>	Not Issued	168	04/03/2000	Integrated GPS system with the web for personalized content delivery, like weather and advertisements, based on the location of a mobile device	DUTTA, RABINDRANATH
<u>09542517</u>	7051073	150	04/03/2000	METHOD, SYSTEM AND PROGRAM FOR EFFICIENTLY DISTRIBUTING SERIAL ELECTRONIC PUBLICATIONS	DUTTA, RABINDRANATH
<u>09543310</u>	Not Issued	120	04/05/2000	Sending full-content data to a second data processing system while viewing reduced-content data on a first data processing system	DUTTA, RABINDRANATH
<u>09543654</u>	Not Issued	168	04/05/2000	Reducing the time and resources required to check for revoked digital certificates in E-commerce in a method, system and program	DUTTA, RABINDRANATH
<u>09549153</u>	6718365	150	04/13/2000	METHOD, SYSTEM, AND PROGRAM FOR ORDERING SEARCH RESULTS USING AN IMPORTANCE WEIGHTING	DUTTA, RABINDRANATH
<u>09552855</u>	Not Issued	168	04/20/2000	Distinguishing between human users and robots for preventing meta-search engines from gathering information or overloading commercial web services	DUTTA, RABINDRANATH
<u>09553808</u>	6684238	150	04/21/2000	METHOD, SYSTEM, AND PROGRAM FOR WARNING AN EMAIL MESSAGE SENDER THAT THE INTENDED RECIPIENT'S MAILBOX IS UNATTENDED	DUTTA, RABINDRANATH

<a href="#">09553809</a>	<a href="#">6681246</a>	150	04/21/2000	METHOD, SYSTEM, AND PROGRAM FOR AUTOMATICALLY PROCESSING PUSHED INFORMATION WITHOUT SUBSCRIBER INVOLVEMENT	DUTTA, RABINDRANATH
<a href="#">09556573</a>	<a href="#">6802007</a>	150	04/24/2000	PRIVACY AND SECURITY FOR SMARTCARDS IN A METHOD, SYSTEM AND PROGRAM	DUTTA, RABINDRANATH

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